NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET -- SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

72-139

Pool **Blanco** ___ Formation **Mesa Verde** ___ County **San Juan** ___

Purchasing Pipeline **El Paso Natural Gas** ___ Date Test Filed ___

Operator **El Paso Natural Gas** ___ Lease **Schwerdtfeger** ___ Well No. **14-A (M)**

Unit **N** ___ Sec. **8** ___ Twp. **27** ___ Rge. **8** ___ Pay Zone: From **5154** ___ To **5272** ___

Casing: OD **5-1/2** ___ WT. **15.5** ___ Set At **5349** ___ Tubing: OD **2"** ___ WT. **4.7** ___ T. Perf. **5239** ___

Produced Through: Casing ___ Tubing **X** ___ Gas Gravity: Measured **.732** ___ Estimated ___

Date of Flow Test: From **8/30/58** ___ To **9/7/58** ___ * Date S.I.P. Measured **5/15/58** ___

Meter Run Size ___ Orifice Size ___ Type Chart ___ Type Taps ___

OBSERVED DATA

Flowing casing pressure (Dwt) ___ psig + 12 = ___ psia	(a)
Flowing tubing pressure (Dwt) ___ psig + 12 = ___ psia	(b)
Flowing meter pressure (Dwt) ___ psig + 12 = ___ psia	(c)

Flowing meter pressure (meter reading when Dwt. measurement taken:

Normal chart reading ___ psig + 12 = ___ psia (d)

Square root chart reading (___)^2 x spring constant ___ = ___ psia (d)

Meter error (c) - (d) or (d) - (c) ± = ___ psi (e)

Friction loss, Flowing column to meter:

(b) - (c) Flow through tubing: (a) - (c) Flow through casing = ___ psi (f)

Seven day average static meter pressure (from meter chart):

Normal chart average reading ___ psig + 12 = ___ psia (g)

Square root chart average reading (**6.90**)^2 x sp. const. **10** = **476** psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = **476** psia (h)

P_t = (h) + (f) = **476** psia (i)

Wellhead casing shut-in pressure (Dwt) ___ psig + 12 = ___ psia (j)

Wellhead tubing shut-in pressure (Dwt) ___ **1042** psig + 12 = **1054** psia (k)

P_c = (j) or (k) whichever well flowed through = **1054** psia (l)

Flowing Temp. (Meter Run) **66** °F + 460 = **526** °Abs (m)

$P_d = \frac{1}{2} P_c = \frac{1}{2}$ (l) = **527** psia (n)

FLOW RATE CALCULATION

$$Q = \underline{\hspace{2cm}} \times \left(\frac{\sqrt{(c)} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}}{\sqrt{(d)} \quad \underline{\hspace{2cm}}} \right) = \underline{\textbf{931}} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \underline{\textbf{931}} \left[\frac{P_c^2 - P_d^2 = \textbf{833187}}{P_c^2 - P_w^2 = \textbf{865723}} \right]^n \quad \textbf{.9624} \quad \textbf{.9716} = \underline{\textbf{905}} \text{ MCF/da.}$$

SUMMARY

P_c = **1054** psia

Q = **931** Mcf/day

P_w = **495** psia

P_d = **527** psia

D = **905** Mcf/day

* This is date of completion test.

* Meter error correction factor

Company **El Paso Natural Gas**

By Original Signed

Title Harold L. Kendrick

Witnessed by ___

Company ___

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\dfrac{(F_cQ)^2 \quad (1-e^{-s})}{R^2}$	$\dfrac{Pt^2}{\text{(Column i)}}$	$P_t^2 + R^2$	P_w
3835	.243	76.615	18,617	226,576	245,193	495

D at 500 = 903